TRANSLATION

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PL2 03063PCT FOR FURTHER			CTION	See Form PCT/IPEA/416				
International application No.	International filing da	te (daymonth/year)	Priority date (day/month/year)					
		21.07.200		23.07.2003				
International Patent Classification (IPC) or national classification and IPC B01J21/06								
BU1U21/ VU								
Applicant								
SAINT-GOBAIN G	LASS F	RANCE						
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 								
2. This REPORT consists			sheets, includi	ng this cover sheet.				
	-	NNEXES, comprising:		ing that do tot other.				
				sheets, as follows:				
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
sheet	s which supers	sede earlier sheets, but	which this Authority co	onsiders contain an amendment that goes beyond				
the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))								
related there	to in compute	r readable form only a	is indicated in the Supp	, containing a sequence listing and/or tables				
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4. This report contains in	dications relat	ing to the following iter	ns:					
Box No. I	Basis of the	e report						
Box No. II	Priority							
Box No. III	Non-establ	ishment of opinion with	regard to novelty, inve	ntive step and industrial applicability				
Box No. IV		ity of invention						
Box No. V		•	35(2) with regard to nov	velty, inventive step or industrial applicability;				
BOX NO. V		nd explanations support						
Box No. VI	Certain do	cuments cited						
Box No. VII	Certain def	fects in the international	application					
Box No. VIII	Certain obs	servations on the interna	ational application					
Date of submission of the dema	nd		Date of completion of	this report				
				-				
Name and mailing address of the IPEA/EP			Authorized officer					
Faccimile No.			Telephone No					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/FR2004/001927

Box	No. I		Basis of the report					
1.	With indic	regard	to the language, this report is based on the internation der this item.	al application in the language in which it	was filed, unless otherwise			
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:							
		<u>Ц</u> ;	international search (Rule 12.3 and 23.1(b))					
		닏,	publication of the international application (Rule 12.4)					
			international preliminary examination (Rule 55.2 and/o		rate and a second			
2.	recei	iving Oj report): the int	to the elements of the international application, this reffice in response to an invitation under Article 14 are ternational application as originally filed/furnished escription:	report is based on (replacement sheets w. referred to in this report as "originally	nicn nave been furnished to the v filed" and are not annexed to			
	لاع				as originally filed/furnished			
		pages						
		pages'						
		pages'		received by this Authority on				
	凶	the cla						
		nos.	1-15		as originally filed/furnished			
		nos.*			ny statement) under Article 19			
ĺ		nos.*		received by this Authority on				
		nos.*		received by this Authority on				
		the dr	awings:					
		sheets	5		as originally filed/furnished			
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		sheets	s*	received by this Authority on				
		a sequ	uence listing and/or any related table(s) – see Supplement	ental Box Relating to Sequence Listing.				
3.			amendments have resulted in the cancellation of:					
			the description, pages					
		\Box	the claims, nos.					
		\sqcap						
			the sequence listing (specify):					
		\exists	any table(s) related to sequence listing (specify):	,				
4.	 _	Thin	report has been established as if (some of) the amend	ments annexed to this report and listed	below had not been made, since			
*.	Ш	they	have been considered to go beyond the disclosure as file	led, as indicated in the Supplemental Box	(Rule 70.2(c)).			
			the description, pages					
			the claims, nos.					
			the drawings, sheets/figs					
			the sequence listing (specify):					
			any table(s) related to sequence listing (specify):					
	If it	em 4 ar	oplies, some or all of those sheets may be marked "sup	erseded."				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/FR2004/001927

Box No. V Reasoned statement under citations and explanations		ent under Au lanations su	rticle 35(2) with regard to novelty, inventive step or industrial applicability; pporting such statement	
1.	Statement			
	Novelty (N)	Claims		YES
		Claims	1-15	NO
	Inventive step (IS)	Claims		YES
		Claims	1-15	ио
	Industrial applicability (IA)	Claims	1-15	YES
		Claims		NO
		Ciains		

- 2. Citations and explanations (Rule 70.7)
 - 1. Reference is made to the following documents:

D1: EP 1 182 174 A
D2: US 6 413 581 B1

2. SUBSTANTIATION

Claims 1 to 5 and 12 to 15 are not supported by the description, as required by PCT Article 6, since their scope is broader than that justified by the description and the drawings. Indeed, claim 1 relates to any material having photocatalytic properties with at least partially crystallised TiO₂ (the description only describes glazing provided with a coating having a photocatalytic property) and to any method for manufacturing such a material in which a temperature greater than 600 °C is used, and consequently includes the steps whereby the substrate is manufactured (for example, a glass manufactured by a float method).

3. It is clear from page 1 of the description that the following feature is essential to the definition of the invention: the titanium oxide must be at least partially crystallised.

Since independent claim 9 does not contain this feature, it does not meet the requirements of PCT Article 6 in combination with PCT Rule 6.3(b), according to which an independent claim must contain all of the technical features essential for the definition of the invention.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 4. INDEPENDENT CLAIMS 1, 9, 12, 15
- 4.1 The present application fails to meet the requirements of PCT Article 33(1), since the subject matter of claim 1 does not comply with the criterion of novelty as defined by PCT Article 33(2).
- D1 describes glazing coated with a photocatalytic film including crystallised TiO_2 , the bending or tempering of the substrate taking place after depositing the precursor of the photocatalytic film at temperatures from 560 to 700 °C (cf. paragraphs [13] and [31]).
- 4.2 The present application fails to meet the requirements of PCT Article 33(1), since the subject matter of claim 1 does not comply with the criterion of novelty as defined by PCT Article 33(2).
- D2 describes a glass onto which a layer of TiO_2 is deposited. The deposition of this layer is integrated in the method for producing the substrate, in particular bending and/or tempering can be carried out subsequent to deposition (cf. example 5, columns 25 and 26).

One of the uses of the substrates of D2 is self-cleaning glazing.

5. DEPENDENT CLAIMS 2 to 8, 10, 11, 13 and 14

Said dependent claims contain no features which, when combined with the features of any one of the claims to which they refer, meet the PCT requirements of novelty and inventive step (PCT Article 33(2) and (3)).